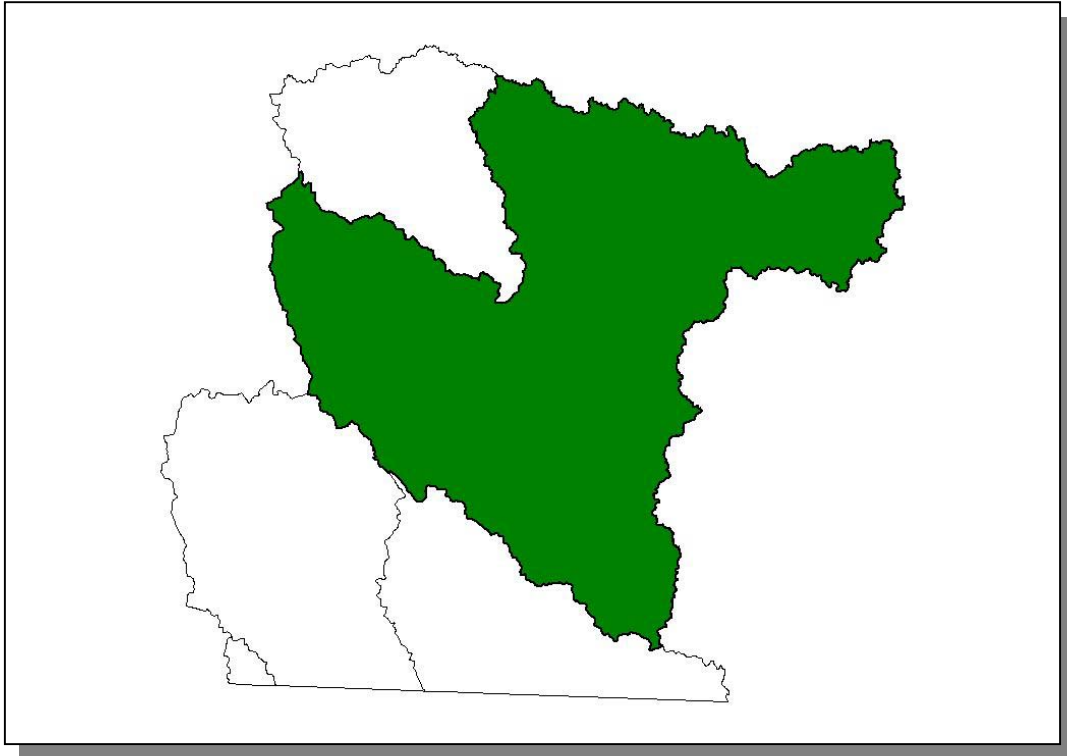
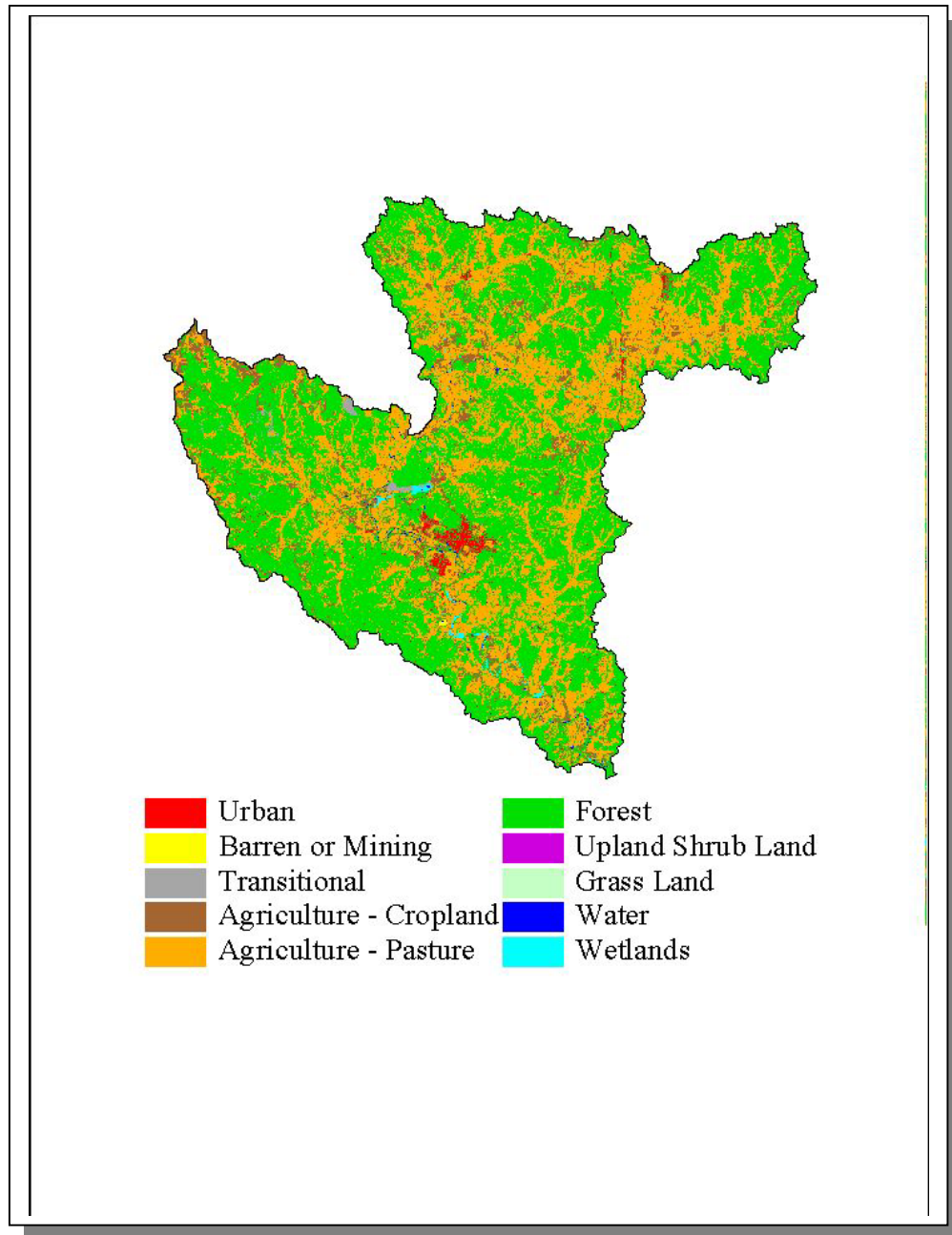


**4.2.B. 0603000402.**



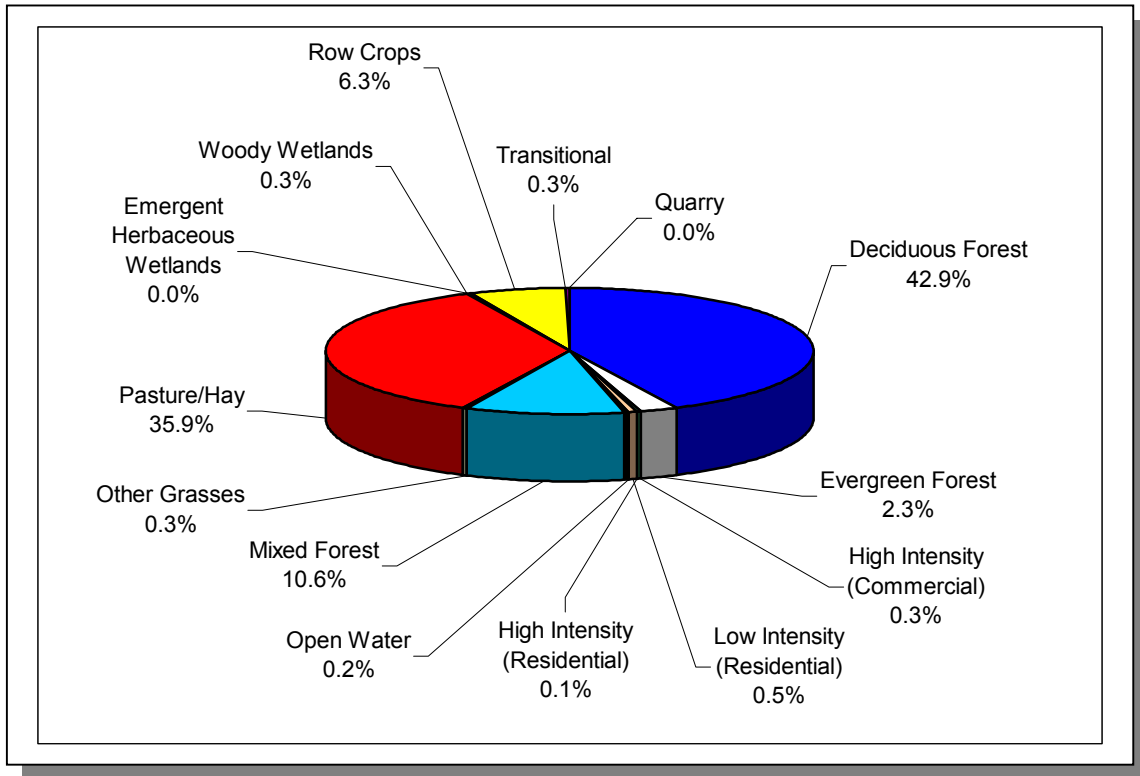
**Figure 4-10. Location of Subwatershed 0603000402.** All Lower Elk HUC-10 subwatershed boundaries are shown for reference.

**4.2.B.i.** General Description.



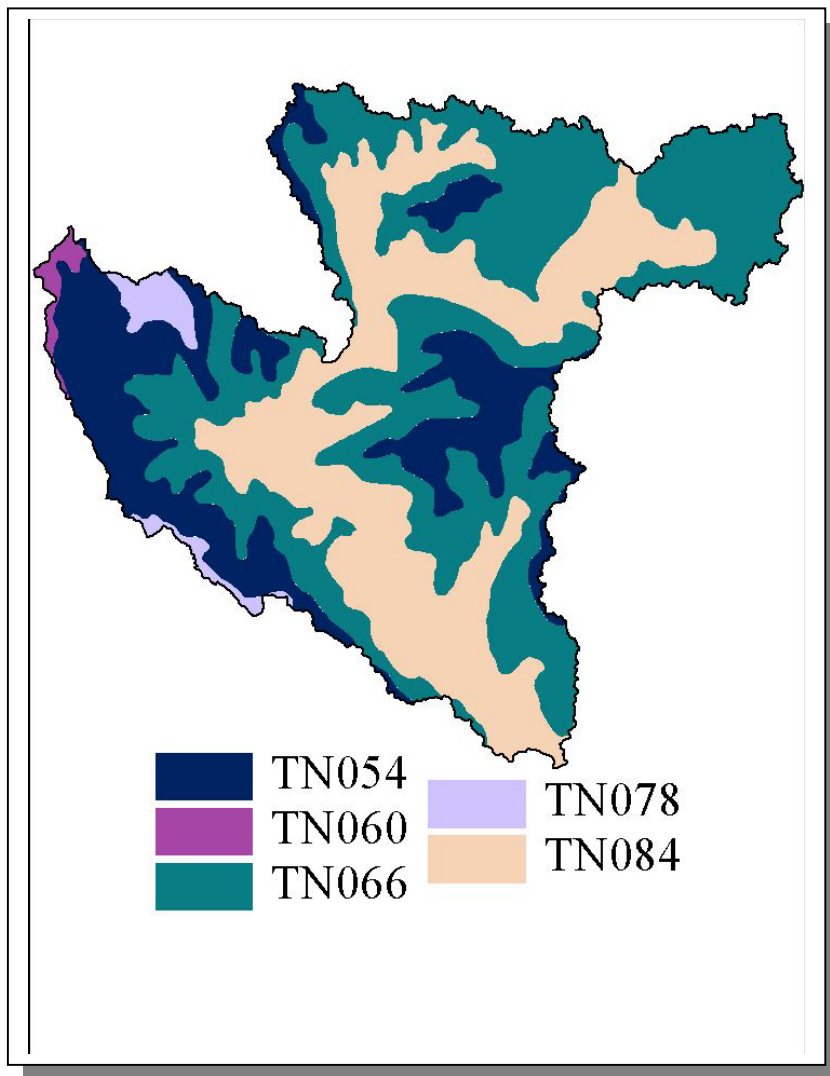
*Figure 4-11. Illustration of Land Use Distribution in Subwatershed 0603000402.*

**DRAFT**



**Figure 4-12. Land Use Distribution in Subwatershed 0603000402.** More information is provided in Lower Elk-Appendix IV.

**DRAFT**



**Figure 4-13. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0603000402.**

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN054	0.00	C	3.04	4.84	Loam	0.32
TN060	5.00	B	1.30	5.32	Silty Loam	0.39
TN066	0.00	B	2.62	4.75	Loam	0.28
TN078	5.00	B	1.73	4.96	Silty Loam	0.39
TN084	0.00	C	1.80	4.99	Silty Loam	0.28

**Table 4-8. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0603000402.** More information is provided in Lower Elk-Appendix IV.

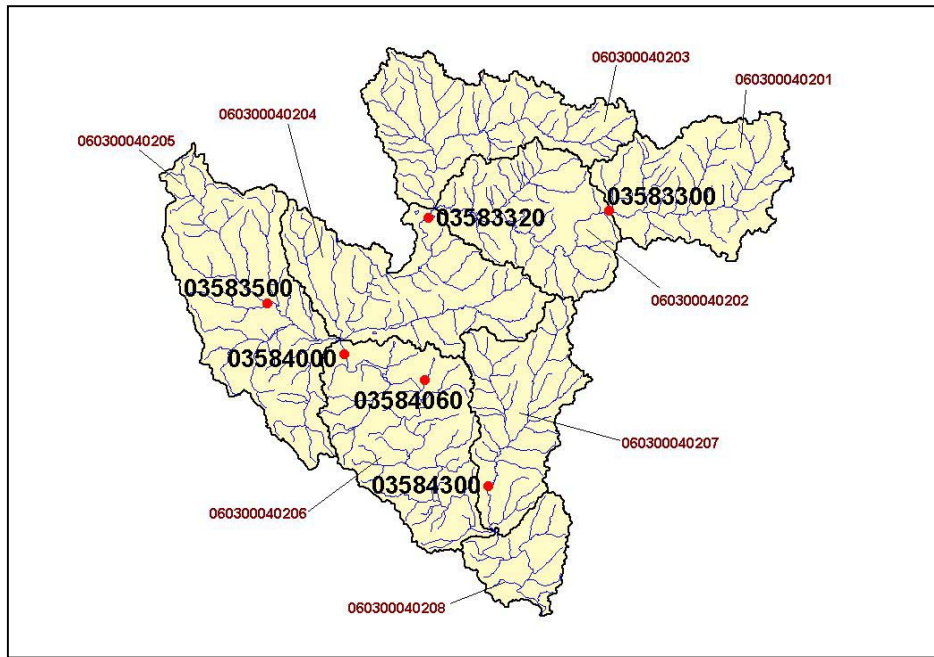
**DRAFT**

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		% CHANGE
	1990	1997 Est.		1990	1997	
Giles	25,741	28,515	52.14	13,422	14,868	10.8
Lawrence	35,303	39,095	2.99	1,057	1,171	10.8
Marshall	21,539	25,687	15.47	3,332	3,974	19.3
<b>Total</b>	<b>82,583</b>	<b>93,297</b>		<b>17,811</b>	<b>20,013</b>	<b>12.4</b>

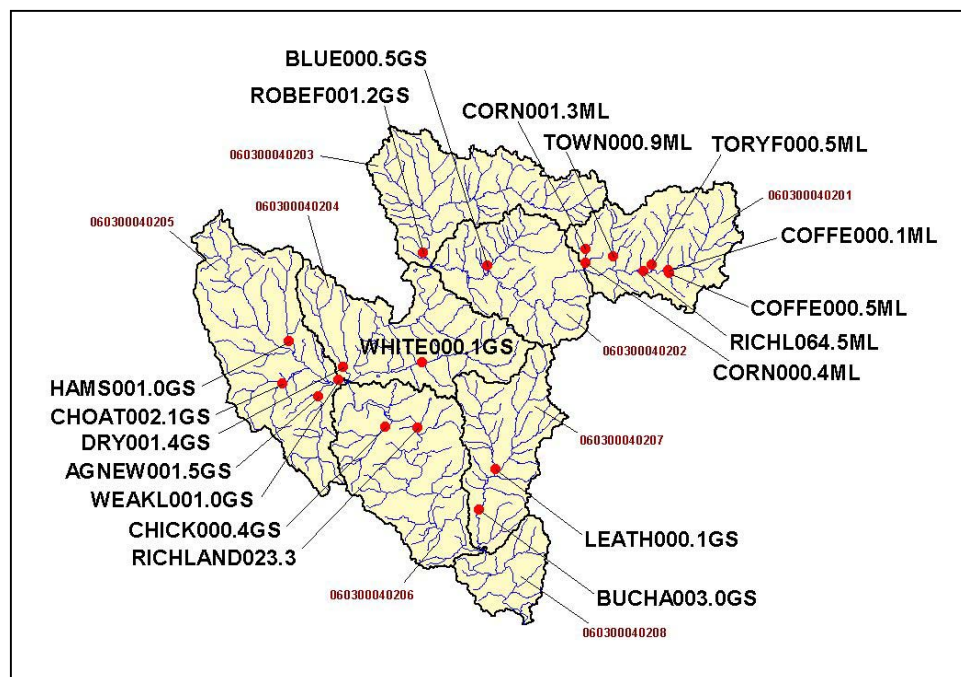
*Table 4-9. Population Estimates in Subwatershed 0603000402.*

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Cornersville	Marshall	677	312	54	255	3
Elkton	Giles	463	184	1	183	0
Lynnville	Giles	366	167	18	145	4
Pulaski	Giles	7,895	3,545	3,283	262	0
<b>Total</b>		<b>9,401</b>	<b>4,208</b>	<b>3,356</b>	<b>845</b>	<b>7</b>

*Table 4-10. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0603000402.*



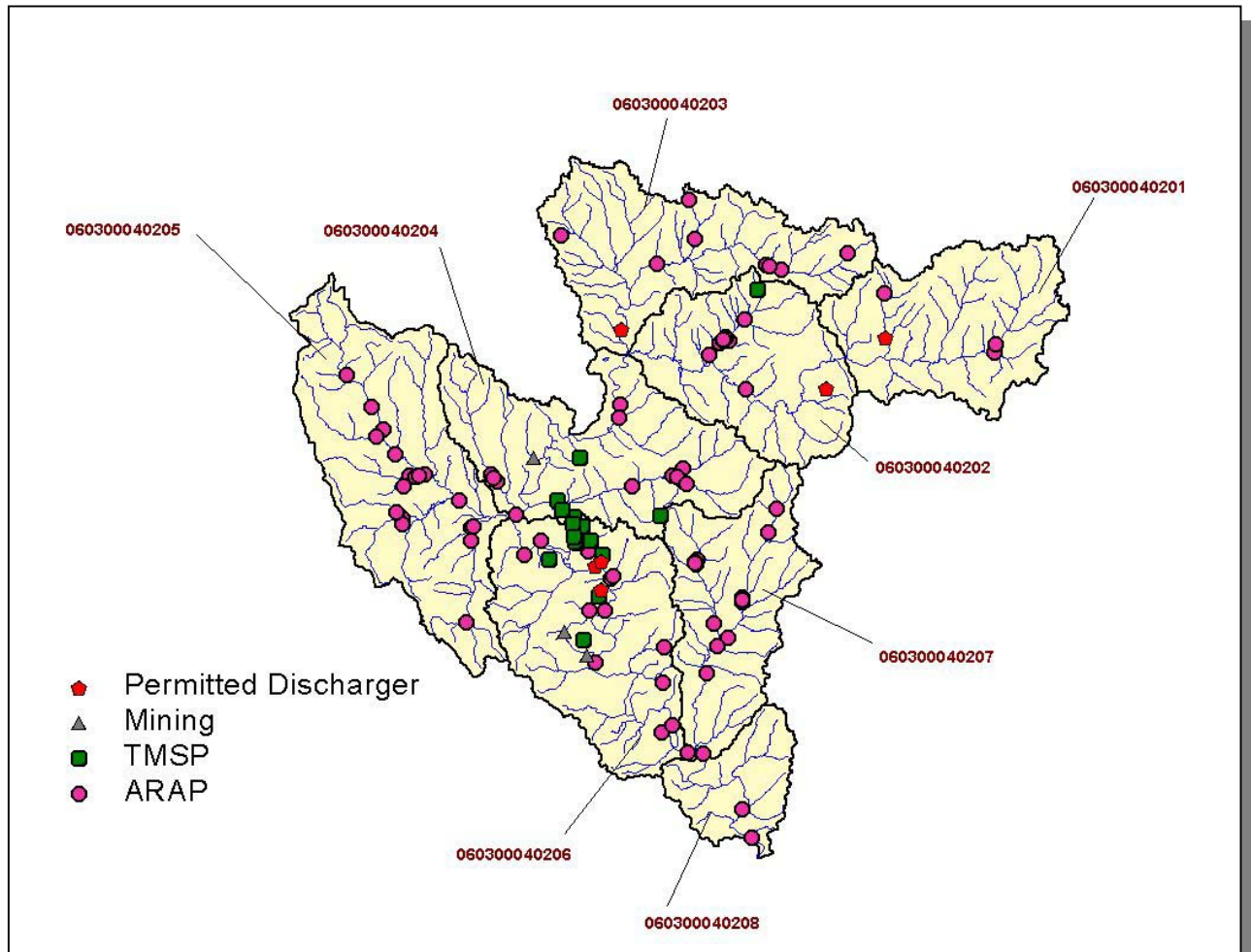
**Figure 4-14. Location of Historical Streamflow Data Collection Sites in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. More information is provided in Lower Elk-Appendix IV.



**Figure 4-15. Location of STORET Monitoring Sites in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. More information is provided in Lower Elk-Appendix IV.

**DRAFT**

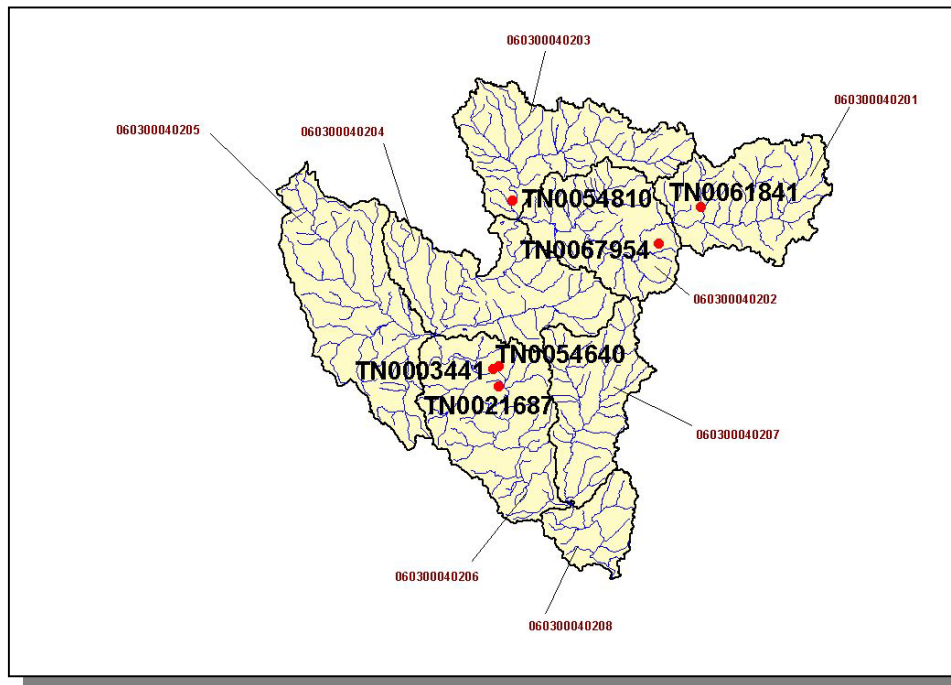
**4.2.B.ii.** Point Source Contributions.



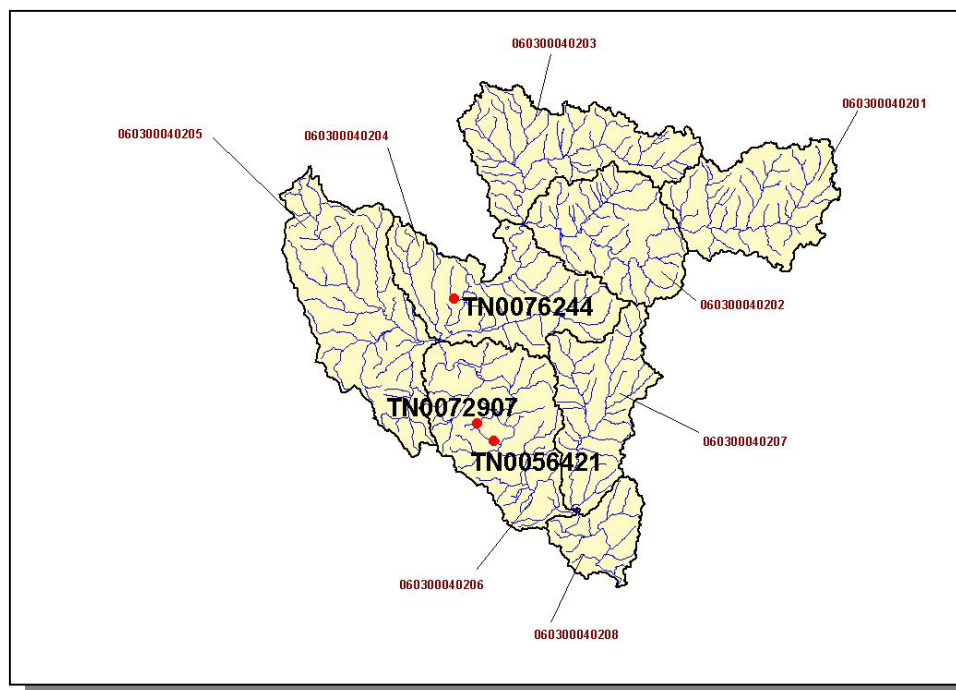
**Figure 4-16. Location of Active Point Source Facilities in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. More information is provided in the following charts.



**DRAFT**

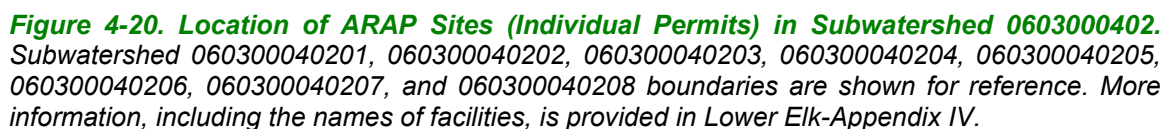
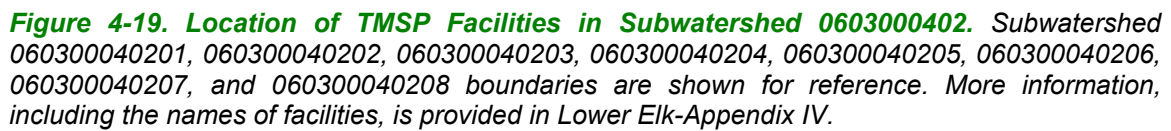


**Figure 4-17. Location of Active Point Source Facilities (Individual Permits) in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. More information, including the names of facilities, is provided in Lower Elk-Appendix IV.



**Figure 4-18. Location of Active Mining Sites in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. More information, including the names of facilities, is provided in Lower Elk-Appendix IV.

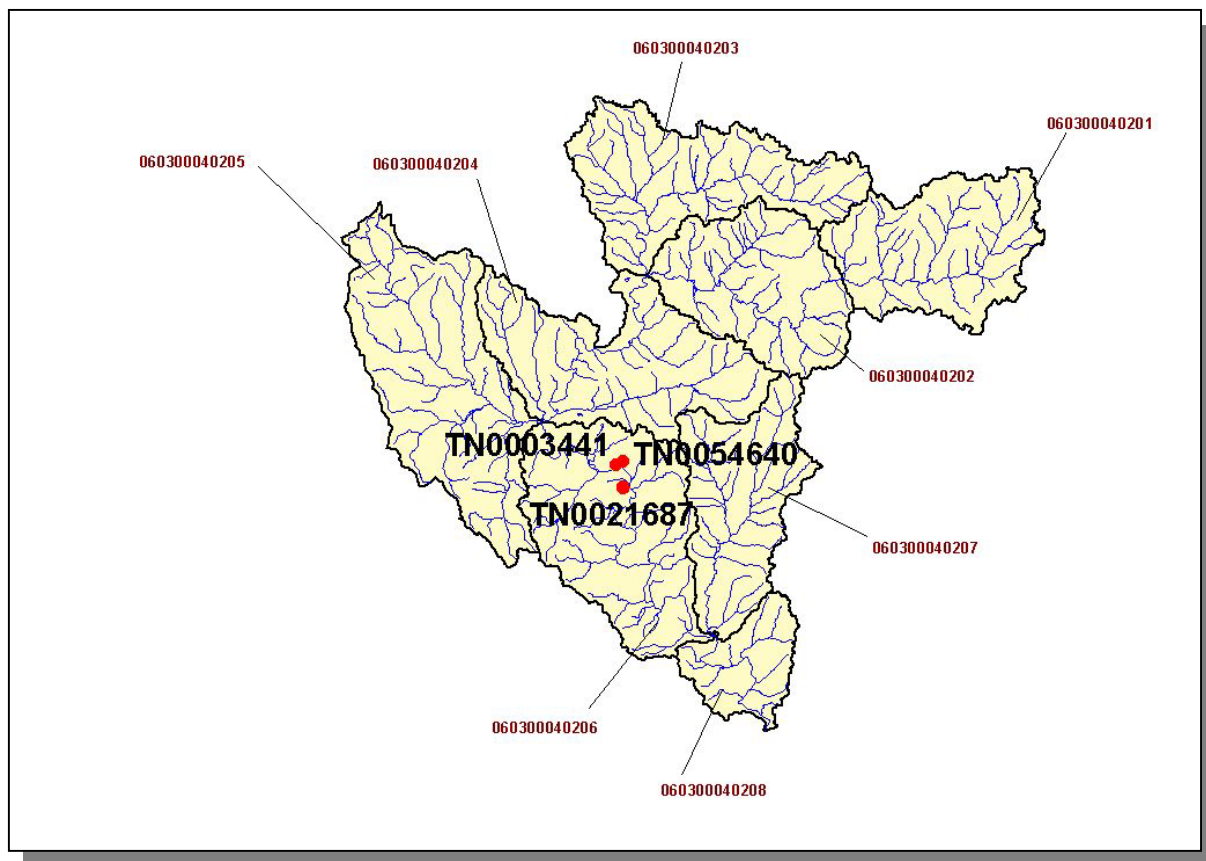




**4.2.A.ii.a. Dischargers to Water Bodies Listed on the 1998 303(d) List**

There are two NPDES facilities discharging to water bodies listed on the 1998 303(d) list in Subwatershed 0603000402:

- TN0003441 (Pulaski Rubber Co.) discharges to Richland Creek @ RM 24.5
- TN0021687 (Pulaski STP) discharges to Richland Creek @ RM 23.3
- TN0054640 (TN Valley Recycling) discharges to Richland Creek @ RM 24.1



**Figure 4-21. Location of NPDES Dischargers to Water Bodies Listed on the 1998 303(d) List in Subwatershed 0603000402.** Subwatershed 060300040201, 060300040202, 060300040203, 060300040204, 060300040205, 060300040206, 060300040207, and 060300040208 boundaries are shown for reference. The names of facilities are provided in Lower Elk-Appendix IV.

**DRAFT**

PERMIT #	1Q10	3Q10	7Q10	3Q20	QDESIGN
TN0003441	9.24	9.63	10.08	8.53	0.07200
TN0021687				8.4	4.0
TN0054640	9.24	9.63	10.08	8.53	0.20000

**Table 4-11. Receiving Stream Flow Information for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000402.** Data are in million gallons per day (MGD). Data were obtained from the USGS publication Flow Duration and Low Flows of Tennessee Streams Through 1992 or from permit files.

PERMIT #	CBOD <sub>5</sub>	NH <sub>3</sub>	Cd	Cu
TN0054640	X	X	X	X

**Table 4-12. Monitoring Requirements for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000402.** CBOD<sub>5</sub>, Carbonaceous Biochemical Oxygen Demand (5-Day).

PERMIT #	CBOD <sub>5</sub>	DO	NH <sub>3</sub>	pH	TSS	TRC	PCB	BIO MONITORING	FECAL COLIFORM	OIL and GREASE
TN0021687	X	X	X	x	X	X		X	X	
TN0003441				X						
TN0054640				X	X		X			X

**Table 4-13a. Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000402.** TSS, Total Suspended Solids; TRC, Total Residual Chlorine; PCB, Polychlorinated Biphenyls.

PERMIT #	Hg	Pb	Zn
TN0054640	X	X	X

**Table 4-13b. Inorganic Parameters Monitored for Daily Maximum Limits for NPDES Dischargers to Waterbodies Listed on the 1998 303(d) List in Subwatershed 0603000402.**

**DRAFT**

**4.2.B.iii. Nonpoint Source Contributions.**

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
24,700	55,512	3,326	75	32	7,269	268

**Table 4-14. Summary of Livestock Count Estimates in Subwatershed 0603000402.** According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Giles	171.8	171.8	3.3	11.4
Lawrence	199.8	199.8	6.6	27.1
<b>Total</b>	<b>371.6</b>	<b>371.6</b>	<b>9.9</b>	<b>38.5</b>

**Table 4-15. Forest Acreage and Average Annual Removal Rates (1987-1994) in Subwatershed 0603000402.**

CROPS	TONS/ACRE/YEAR
Legume/Grass (Hayland)	0.45
Grass (Hayland)	0.23
Legume (Hayland)	0.59
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Corn (Row Crops)	5.00
Soybeans (Row Crops)	4.69
Cotton (Row Crops)	8.07
All Other Row Crops	2.70
Summer Fallow (Other Cropland)	1.60
Wheat (Close Grown Cropland)	3.35
Barley (Close Grown Cropland)	1.08
All Other Close Grown Cropland	1.80
Grass (Pastureland)	0.97
Grass, Forbs, Legumes (Mixed Pasture)	0.74
Other Land in Farms (Other Farmland)	0.05
Conservation Reserve Program Lands	0.25
Other Vegetable and Truck Crops	4.29
All Other Crops not Planted	0.87
Non Agricultural Land Use	0.00
Farmsteads and Ranch Headquarters	0.41

**Table 4-16. Annual Estimated Total Soil Loss in Subwatershed 0603000402.**